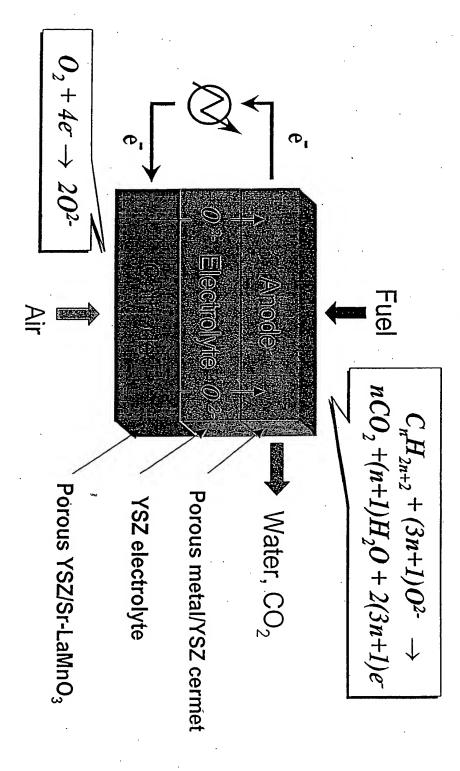
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FIGURE 1A

SOFCs can theoretically operate on hydrocarbon fuels





Stable in liquid fuels

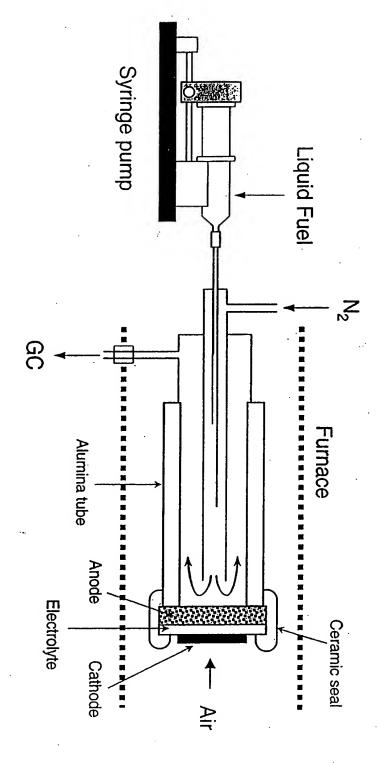
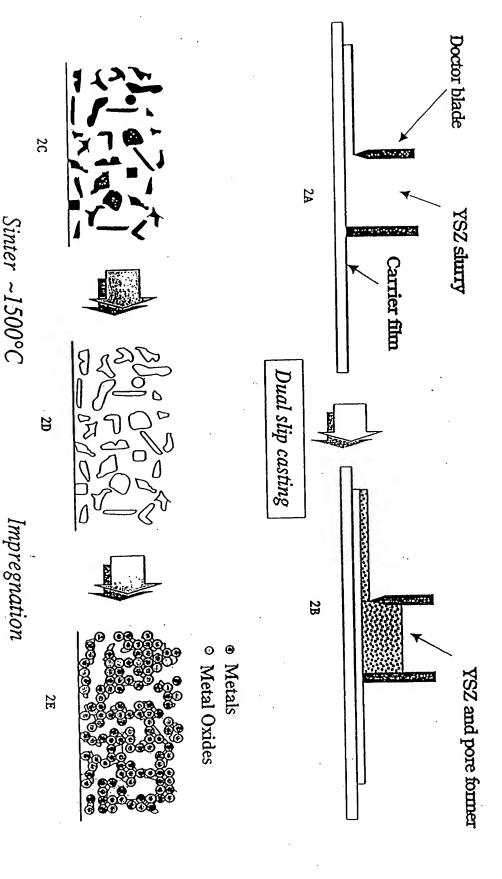


FIGURE 1B

Fabrication methods:







We can remake Ni cermets.

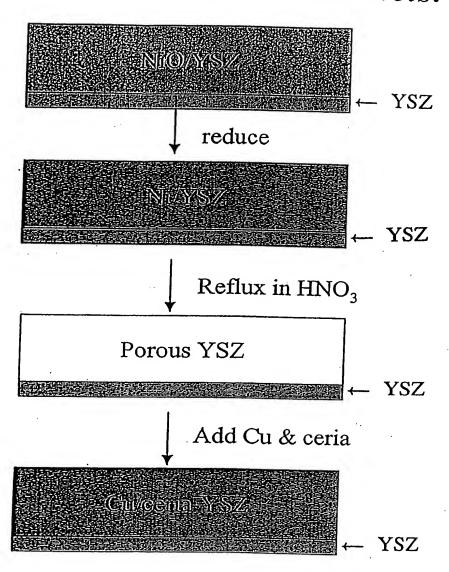




FIGURE 4A

support

Porous – anode

Electrolyte

cathode

Can we make cells that are stronger?

FIGURE 4B



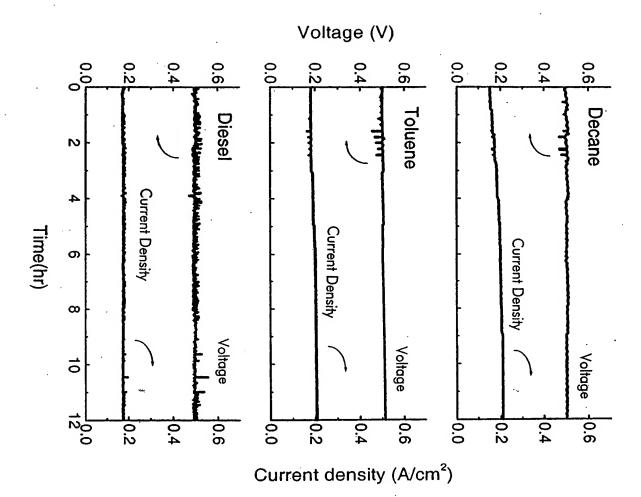
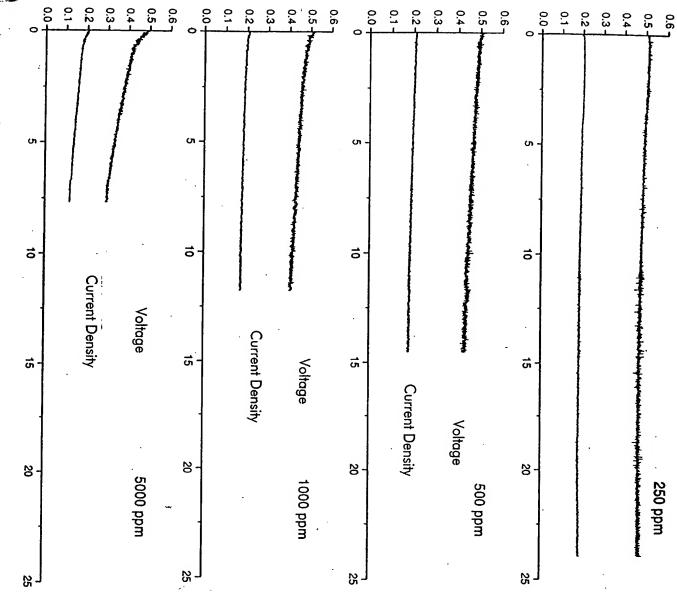


FIGURE 6

Voltage (V) and Current Density (A/cm²)



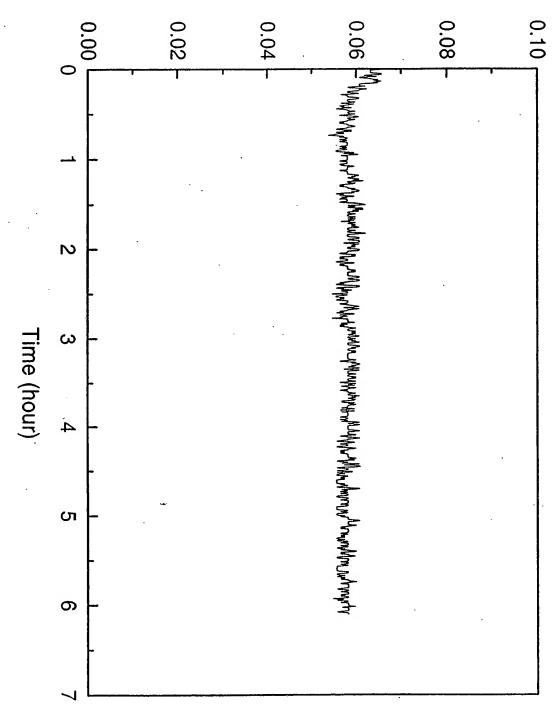
Current Density

Voltage



FIGURE 7

Current Density (A/cm²)



Voltage (V) and Current Density (A/cm²)

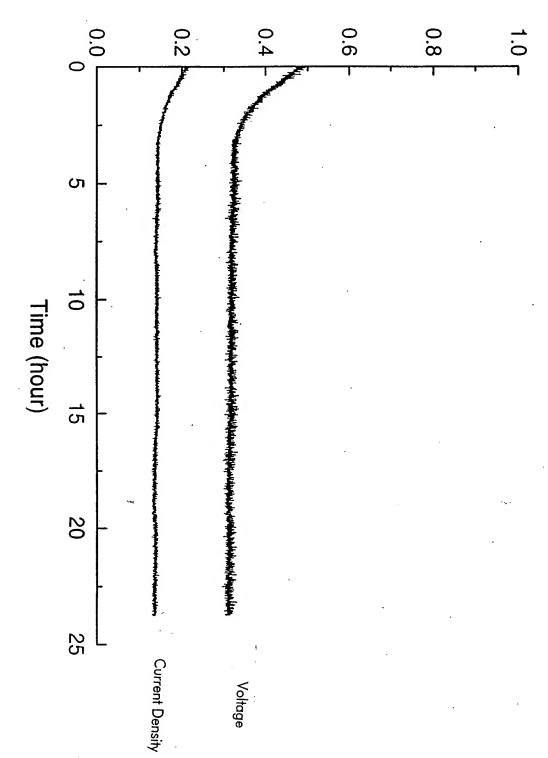
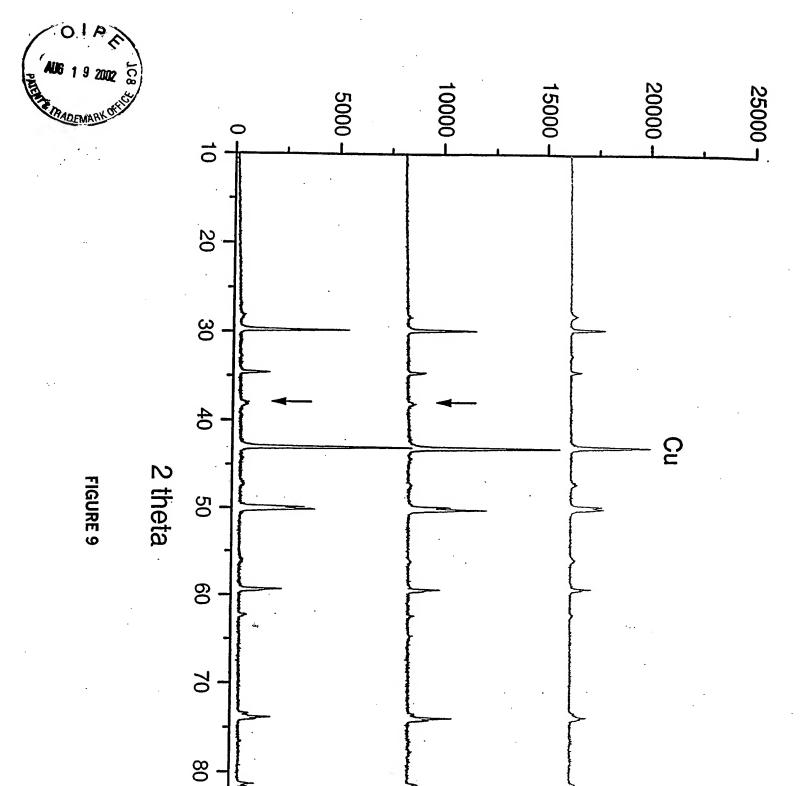


FIGURE 8



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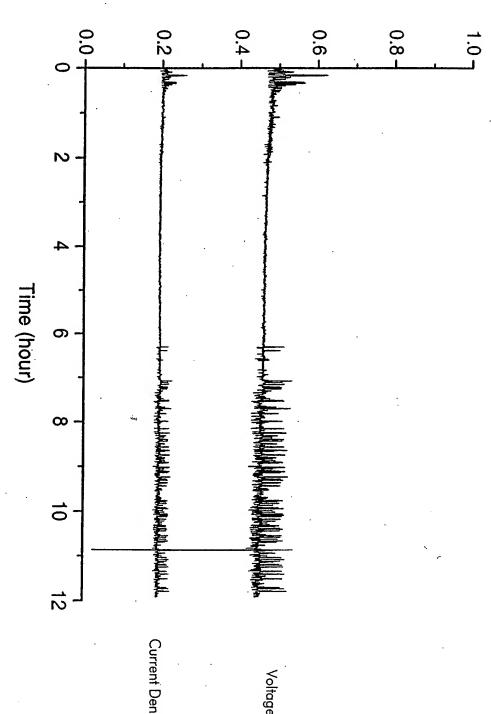
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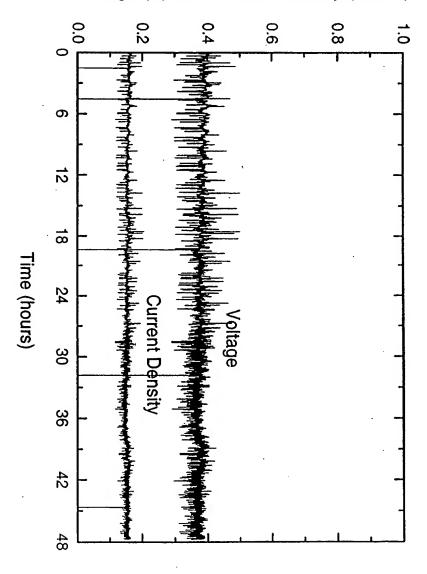
FIGURE 10





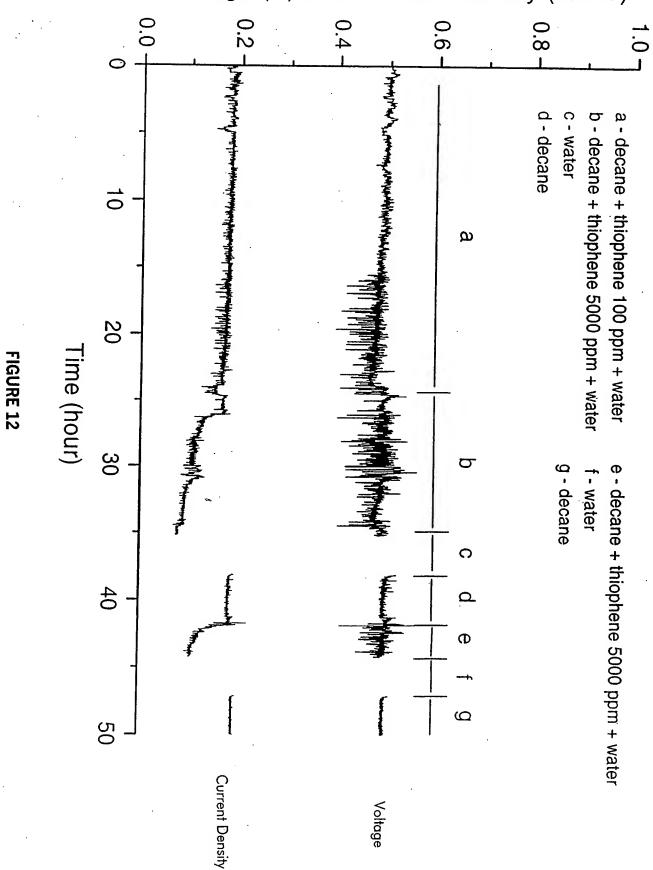




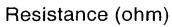


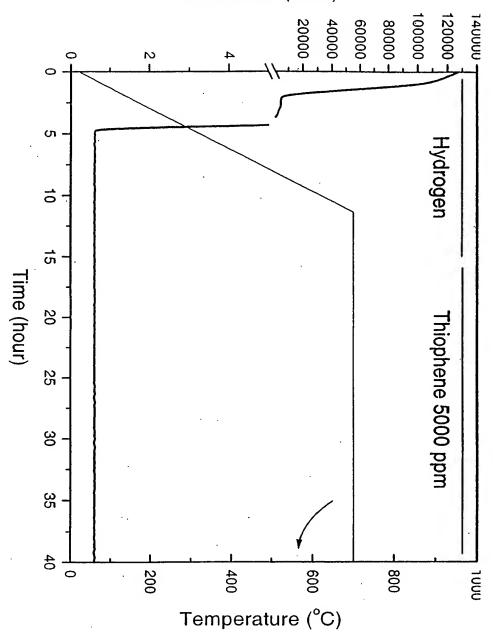














Cell made from 40%Ni/YSZ cermet, after removal of Ni and addition of ceria & Cu.

